Name:

at1113exam: Expand, factor, and solve quadratics (v323)

1. Solve the equation.

$$(3x - 4)(2x - 5) \;=\; 0$$

2. Expand the following expression into standard form.

$$(5x + 7)(5x - 7)$$

3. Expand the following expression into standard form.

$$(7x - 5)^2$$

4. Expand the following expression into standard form.

$$(5x + 3)(6x - 7)$$

5. Factor the expression.

$$36x^2 - 25$$

6. Solve the equation.

$$6x^2 - 18x + 49 \;=\; 4x^2 + 3x - 5$$

7. Factor the expression.

$$x^2 - x - 56$$

8. Solve the equation with factoring by grouping.

$$12x^2 + 18x + 10x + 15 \;=\; 0$$